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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Adam J. Katz et al.
Serial No.: 10/797,371
Filed: March 9, 2004
Docket: 30448.77USD1
Title: ADIPOSE-DERIVED STEM CELLS AND LATTICES

CERTIFICATE UNDER 37 CFR §1.8:

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on June 22, 2005.

By: Renato Marco P. Domingo

Name: Renato Marco P. Domingo

55 S. Lake Avenue, Suite 710
Pasadena, California 91101
June 22, 2005

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

We are transmitting herewith the attached:

- ☒ Transmittal sheet, in duplicate, containing Certificate under 37 CFR §1.8
- ☒ Information Disclosure Statement (37 C.F.R. §1.97 (b)(3))
- ☒ Form 1449 (Information Disclosure Statement) (5 sheets)
- ☒ Exhibit 75-151
- ☒ Return postcard

Please charge any additional fees or credit overpayment to Deposit Account No. 50-0306. A duplicate of this sheet is enclosed.

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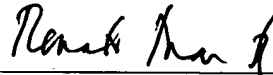


IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Adam J. Katz et al. **Examiner:** Tara L. Garvey
Serial No.: 10/797,371 **Group Art Unit:** 1636
Filed: March 9, 2004 **Docket No.:** 30448.77USD1
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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
(37 C.F.R. §1.97(b)(3))

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

This Information Disclosure Statement is being filed herein as a supplement to Applicant's June 15, 2004 and October 25, 2004 Information Disclosure Statements which were submitted under 37 C.F.R. §1.97(b)(3) before the mailing date of the first Office Action on the merits. In accordance with 37 C.F.R. §1.98(d), copies of Exhibits 75-151 as set forth in the Form 1449 are included herein.

With regard to the above-identified application, the items of information listed on the enclosed Form 1449 are brought to the attention of the Examiner. They are as follows:

- U.S. Patent No. 5,854,292 issued December 29, 1998 - **Exhibit 75**
- U.S. Patent No. 5,906,934 issued May 25, 1999 - **Exhibit 76**

- Ailhaud, G. et al., "Hormonal Requirements for Growth and Differentiation of OB17 Preadipocyte Cells *In Vitro*," *Diabete & Metabolisme*, 1983, 9:125-33 - **Exhibit 77**
- Ailhaud, G. et al., "Lipoprotéine lipase et différenciation adipocytaire," *Reprod. Nutr. Develop.*, 1985, 25:153-8 - **Exhibit 78**
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- Probst, M. et al., "Homologous bladder augmentation in dog with the bladder acellular matrix graft," *BJU International*, 2000, 85:362-71 - **Exhibit 81**
- Soda, Ryo and Mehdi Tavassoli, "Adipocyte Stem Cell: A Brief Review," *International Journal of Cell Cloning*, 1983, 1:79-84 - **Exhibit 82**
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- Wakitani, Shigeyuki et al., "Myogenic Cells Derived from Rat Bone Marrow Mesenchymal Stem Cells Exposed to 5-Azacytidine," *Muscle & Nerve*, 1995, 18:1417-26 - **Exhibit 84**
- Zuk, Patricia A. et al., "Human Adipose Tissue Is A Source of Multipotent Stem Cells," *Molecular Biology of the Cell*, 2002, 13:4279-95 - **Exhibit 85**
- International Published Application No. WO 97/26326 published July 24, 1997 - **Exhibit 86**
- Copy of Compliant For Correction Of Inventorship Under 35 U.S.C. §§1 and 256 dated October 29, 2004 - **Exhibit 87**
- Copy of Answer To Compliant For Correction of Inventorship Under 35 U.S.C. §256 and Demand For Jury Trial dated January 5, 2005 - **Exhibit 88**

- Ng, C.W. et al., "Differences in Growth *in vitro* of Adipose Cells From Normal and Obese Patients," *Nature*, 1971, 231:445 – **Exhibit 89**
- Poznanski, W. J. et al., "Human Fat Cell Precursors: Morphologic and Metabolic Differentiation in Culture," *Laboratory Investigation*, 1973, 29:570-6 - **Exhibit 90**
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- Folkman, Judah and Yuen Shing, "Control of Angiogenesis by Heparin and Other Sulfated Polysaccharides," *Heparin and Related Polysaccharides*, 1992, D. A. Lane et al. (eds.), Plenum Press, New York, NY, pp. 355-64 - **Exhibit 109**
- Ibrahimi, Azeddine et al., "Essential Role of Collagens for Terminal Differentiation of Preadipocytes," *Biochemical and Biophysical Research Communications*, 1992, 187:1314-22 - **Exhibit 110**
- Teichert-Kuliszewska, Krystyna et al., "Augmented Production of Heparin-binding Mitogenic Proteins by Preadipocytes from Massively Obese Persons," *J. Clin. Invest.*, 1992, 90:1226-31 - **Exhibit 111**
- Zocchi, Michele, "Ultrasonic Liposculpturing," *Aesthetic Plastic Surgery*, 1992, 16:287-98 - **Exhibit 112**
- Fried, Susan K. et al., "Lipoprotein Lipase Regulation by Insulin and Glucocorticoid in Subcutaneous and Omental Adipose Tissues of Obese Women and Men," *J. Clin. Invest.*, 1993, 92:2191-8 - **Exhibit 113**
- Petruschke, Th. and H. Hauner, "Tumor Necrosis Factor- α Prevents the Differentiation of Human Adipocyte Precursor Cells and Causes Delipidation of Newly Developed Fat Cells," *Journal of Clinical Endocrinology and Metabolism*, 1993, 76:742-7 - **Exhibit 114**
- Bruder, Scott P. et al., "Mesenchymal Stem Cells in Bone Development, Bone Repair, and Skeletal Regeneration Therapy," *Journal of Cellular Biochemistry*, 1994, 56:283-94 - **Exhibit 115**
- Butterwith, S. C., "Molecular Events in Adipocyte Development," *Pharmac. Ther.*, 1994, 61:399-411 - **Exhibit 116**
- Kim, Nam W. et al., "Specific Association of Human Telomerase Activity with Immortal Cells and Cancer," *Science*, 1994, 266:2011-5 - **Exhibit 117**
- Tontonoz, Peter et al., "Adipocyte-specific transcription factor ARF6 is a heterodimeric complex of two nuclear hormone receptors, PPAR γ and RXR α ," *Nucleic Acids Research*, 1994, 22:5628-34 - **Exhibit 118**

- van de Venter, Maryna et al., "Catecholamine Stimulated Lipolysis in Differentiated Human Preadipocytes in a Serum-Free, Defined Medium," *Journal of Cellular Biochemistry*, 1994, 54:1-10 - **Exhibit 119**
- Coleman, Sydney R., "Long-Term Survival of Fat Transplants: Controlled Demonstrations," *Aesthetic Plastic Surgery*, 1995, 19:421-5 - **Exhibit 120**
- Hauner, H. et al., "Effects of epidermal growth factor (EGF), platelet-derived growth factor (PDGF) and fibroblast growth factor (FGF) on human adipocyte development and function," *European Journal of Clinical Investigation*, 1995, 25:90-6 - **Exhibit 121**
- Kliewer, Steven A. et al., "A Prostaglandin J₂ Metabolite Binds Peroxisome Proliferator-Activator Receptor γ and Promotes Adipocyte Differentiation," *Cell*, 1995, 83:813-9 - **Exhibit 122**
- Moore, John H. et al., "Viability of Fat Obtained by Syringe Suction Lipectomy: Effects of Local Anesthesia with Lidocaine," *Aesthetic Plastic Surgery*, 1995, 19:335-9 - **Exhibit 123**
- Schor, A. M. et al., "Pericyte Differentiation," *Clinical Orthopaedics and Related Research*, 1995, 313:81-91 - **Exhibit 124**
- Zhu, Yijun et al., "Structural organization of mouse peroxisome proliferator-activated receptor γ (mPPAR γ) gene: Alternative promoter use and different splicing yield two mPPAR γ isoforms," *Proceedings of the National Academy of Sciences USA*, 1995, 92:7921-5 - **Exhibit 125**
- Ashkenas, John et al., "The Extracellular Matrix in Epithelial Biology: Shared Molecules and Common Themes in Distant Phyla," *Developmental Biology*, 1996, 180:433-44 - **Exhibit 126**
- Brun, Regina P. et al., "Differential activation of adipogenesis by multiple PPAR isoforms," *Genes & Development*, 1996, 10:974-84 - **Exhibit 127**
- Gibbs, W. Wayt, "Gaining on Fat," *Scientific American*, 1996, pp. 88-94 - **Exhibit 128**

- Guerrerosantos, Jose, "Autologous Fat Grafting for Body Contouring," *Clinics in Plastic Surgery*, 1996, 23:619-31 - **Exhibit 129**
- Haraida, Sibylle et al., "Distribution of Basement Membrane Components in Normal Adipose Tissue and in Benign and Malignant Tumors of Lipomatous Origin," *Modern Pathology*, 1996, 9:137-44 - **Exhibit 130**
- Hirschi, Karen K. and Patricia A. D'Amore, "Pericytes in the microvasculature," *Cardiovascular Research*, 1996, 32:687-98 - **Exhibit 131**
- Werb, Zena et al., "Extracellular matrix remodeling and the regulation of epithelial-stromal interactions during differentiation and involution," *Kidney International*, 1996, 49(Suppl. 54):S68-74 - **Exhibit 132**
- U.S. Patent No. 5,688,531, issued November 18, 1997 - **Exhibit 133**
- Adams, Maria et al., "Activators of Peroxisome Proliferator-activated Receptor γ Have Depot-specific Effects on Human Preadipocyte Differentiation," *J. Clin. Invest.*, 1997, 100:3149-53 - **Exhibit 134**
- Crandall, David L. et al., "A Review of the Microcirculation of Adipose Tissue: Anatomic, Metabolic and Angiogenic Perspectives," *Microcirculation*, 1997, 4:211-32 - **Exhibit 135**
- Dodson, M. V. et al., "The development and utility of a defined muscle and fat co-culture system," *Tissue & Cell*, 1997, 29:517-24 - **Exhibit 136**
- Aubin, Jane E., "Bone Stem Cells," *Journal of Cellular Biochemistry Supplements*, 1998, 30/31:73-82 - **Exhibit 137**
- Kawaguchi, Nobuko et al., "De novo adipogenesis in mice at the site of injection of basement membrane and basic fibroblast growth factor," *Proceedings of the National Academy of Sciences USA*, 1998, 95:1062-6 - **Exhibit 138**
- Kim, Jae Bum et al., "ADD1/SREBP1 activates PPAR γ through the production of endogenous ligand," *Proceedings of the National Academy of Science USA*, 1998, 95:4333-7 - **Exhibit 139**

- Novaes, Flavio et al., "Counting Method of Live Fat Cells Used in Lipoinjection Procedures," *Aesthetic Plastic Surgery*, 1998, 22:12-5 - **Exhibit 140**
- Patrick, Charles W., Jr. et al., "Tissue Engineered Adipose Tissue," *Frontiers in Tissue Engineering*, 1998, Charles W. Patrick et al. (eds.), Pergamon, Houston, TX, pp. 369-82 - **Exhibit 141**
- Spiegelman, B. M., "PPAR- γ : Adipogenic Regulator and Thiazolidinedione Receptor," *Diabetes*, 1998, 47:507-14 - **Exhibit 142**
- Bond, A. et al., "Human subcutaneous preadipocytes differentiate into osteoblasts," *FASEB*, 1999, Abstract, 13:A600 - **Exhibit 143**
- Ghilzon, R. et al., "Stromal Mesenchymal Progenitor Cells," *Leukemia and Lymphoma*, 1999, 32:211-21 - **Exhibit 144**
- Patrick, C. W., Jr. et al., "Preadipocyte Seeded PLGA Scaffolds for Adipose Tissue Engineering," *Tissue Engineering*, 1999, 5:139-51 - **Exhibit 145**
- Stashower, Mitchell et al., "Stromal Progenitor Cells Present Within Liposuction and Reduction Abdominoplasty Fat for Autologous Transfer to Aged Skin," *Dermatol Surg*, 1999, 25:945-9 - **Exhibit 146**
- Clark, Brian R. and Armand Keating, "Biology of Bone Marrow Stroma," *Annals of New York Academy of Sciences*, pp. 70-78 - **Exhibit 147**
- Passaniti, Antonino et al., "Methods in Laboratory Investigation: A Simple, Quantitative Method for Assessing Angiogenesis Antiangiogenic Agents Using Reconstituted Basement Membrane, Heparin and Fibroblast Growth Factor," *Laboratory Investigation*, 1992, 67:519-28 - **Exhibit 148**
- Smith, Andrew D. et al., "Mesenchymal Stem Cells Derived from Bone Marrow and Human Adipose Tissue Exhibit Multilineage Potential," *J. Invest. Med.*, 2000, Abstract: 95A - **Exhibit 149**

- Strutt, Brenda et al., "Growth and Differentiation of Human Adipose Stromal Cells in Culture," *Methods in Molecular Medicine: Human Cell Culture Protocols*, 1996, G. E. Jones, ed., Humana Press, Inc., Totowa, NJ, pp. 41-51 - **Exhibit 150**
- Crandall, David L. et al., "Identification of Estrogen Receptor β RNA in Human Breast and Abdominal Subcutaneous Adipose Tissue," *Biochemical and Biophysical Research Communications*, 1998, 248:523-6 - **Exhibit 151**

No representation is made that a reference is "prior art" within the meaning of 35 U.S.C. §§ 102 and 103 and Applicants reserve the right, pursuant to 37 C.F.R. § 1.131 or otherwise, to establish that the reference(s) are not "prior art." Moreover, Applicants do not represent that the references have been thoroughly reviewed or that any relevance of any portion of a reference is intended.

Consideration of the items listed is respectfully requested. Pursuant to the provisions of M.P.E.P. 609, it is requested that the Examiner return a copy of the attached Form 1449, marked as being considered and initialed by the Examiner, to the undersigned with the next official communication.

Adam J. Katz et al.
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Page 10

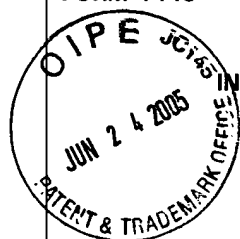
No fee in is deemed necessary in connection with the filing of this Information Disclosure Statement. If any additional fee is required, authorization is hereby given to charge the amount of any such fee, or credit any overpayment, to Deposit Account No. 50-0306.

Respectfully submitted,

A handwritten signature in dark ink, appearing to read "Sarah B. Adriano", is written over a horizontal line.

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FORM 1449*



INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION

(Use several sheets if necessary)

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Applicant

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Filing Date

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Group Art Unit

1636

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,854,292 (Exhibit 75)	12/29/98	Ailhaud et al.			01/22/97
	5,906,934 (Exhibit 76)	05/25/99	Grande et al.			03/14/95
	5,688,531 (Exhibit 133)	11/18/97	Benayahu et al.			12/23/94

FOREIGN PATENT DOCUMENTS

	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	WO 97/26326 (Exhibit 86)	07/24/97	PCT				X

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Ailhaud, G. et al., "Hormonal Requirements for Growth and Differentiation of OB17 Preadipocyte Cells <i>In Vitro</i> ," <i>Diabete & Metabolisme</i> , 1983, 9:125-33 (Exhibit 77)
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*Substitute Disclosure Statement Form (PTO-1449)

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FORM 1449* INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION (Use several sheets if necessary)	Docket Number	Application Number
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	Adam J. Katz et al.	
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	March 9, 2004	1636

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